

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|------------------------------|------------------|---------|------------------|
| S3 | 5 | zhang-zhiqiang.in. | USPAT | AND | OFF | 2006/07/26 12:07 |
| S4 | 0 | ("6783746").URPN. | USPAT | AND | OFF | 2006/07/26 12:13 |
| S5 | 93221 | lubricant | USPAT | AND | OFF | 2006/07/26 15:18 |
| S6 | 2331 | S5 and (thermal adj conductivity) | USPAT | AND | OFF | 2006/07/26 15:19 |
| S9 | 1353 | S8 and (carbon or graphite) | USPAT | AND | OFF | 2006/07/26 15:21 |
| S8 | 2131 | S5 and (thermal adj conductivity) @ad<"20020530" | USPAT | AND | OFF | 2006/07/26 15:21 |
| S13 | 3 | S12 and (nanomaterial or nanotube or nanofiber) | USPAT | AND | OFF | 2006/07/26 15:52 |
| S12 | 680 | S9 and dispers\$3 | USPAT | AND | OFF | 2006/07/26 15:53 |
| S14 | 1521 | (nanomaterial or nanotube or nanofiber) | USPAT | AND | OFF | 2006/07/26 15:56 |
| S17 | 217 | S16 and dispers\$3 | USPAT | AND | OFF | 2006/07/26 15:57 |
| S16 | 370 | S14 and fluid | USPAT | AND | OFF | 2006/07/26 15:57 |
| S15 | 70 | S5 and S14 | USPAT | AND | OFF | 2006/07/26 15:57 |
| S18 | 119 | S16 and dispers\$3 and @ad<"20020530" | USPAT | AND | OFF | 2006/07/26 15:58 |
| S11 | 40 | S9 and "508".clas. | USPAT | AND | OFF | 2006/07/26 15:58 |
| S22 | 22 | S19 and lubric\$8 | US-PGPUB; USPAT | AND | OFF | 2006/07/26 16:18 |
| S24 | 8858 | (nanomaterial\$1 or nanotube\$1 or nanofiber\$1) | US-PGPUB; USPAT | AND | ON | 2006/07/26 16:19 |
| S23 | 1521 | S14 | US-PGPUB; USPAT | AND | ON | 2006/07/26 16:19 |
| S19 | 119 | S16 and dispers\$3 and @ad<"20020530" | US-PGPUB; USPAT | AND | OFF | 2006/07/26 16:19 |
| S27 | 65 | S26 and dispers\$3 | US-PGPUB; USPAT | AND | ON | 2006/07/26 16:20 |
| S26 | 104 | S5 and S24 | US-PGPUB; USPAT | AND | ON | 2006/07/26 16:20 |
| S29 | 884 | S24 and lubric\$8 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/26 16:22 |
| S30 | 226 | S29 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/26 16:23 |
| S31 | 135 | S30 and thermal | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/26 16:26 |

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| S32 | 122 | S31 and (fluid or liquid or oil or grease) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/26 16:38 |
| S34 | 5 | ("5641424" "5863463" "6043199" "6059996" "6103144").PN. | US-PGPUB; USPAT; USOCR | AND | OFF | 2006/07/27 08:10 |
| S36 | 6 | S35 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/27 09:41 |
| S38 | 8 | 252/7\$.ccls. AND (nanotube or nanofiber or nanomaterial) AND @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/27 09:44 |
| S37 | 2 | 252/71.ccls. AND (nanotube or nanofiber or nanomaterial) AND @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/27 09:44 |
| S43 | 122 | S42 and (fluid or liquid or oil or grease) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 09:46 |
| S42 | 135 | S41 and thermal | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 09:46 |
| S41 | 226 | S40 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 09:46 |
| S40 | 890 | S39 and lubric\$8 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 09:46 |
| S39 | 8908 | (nanomaterial\$1 or nanotube\$1 or nanofiber\$1) | US-PGPUB; USPAT | AND | ON | 2006/07/27 09:46 |
| S33 | 23 | S32 and dispersant | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 09:46 |
| S44 | 13 | S43 and "dispersing agent" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 09:47 |
| S47 | 1353 | S46 and (carbon or graphite) | USPAT | AND | OFF | 2006/07/27 10:05 |
| S46 | 2131 | S45 and (thermal adj conductivity) @ad<"20020530" | USPAT | AND | OFF | 2006/07/27 10:05 |
| S45 | 93221 | lubricant | USPAT | AND | OFF | 2006/07/27 10:05 |
| S48 | 40 | S47 and "508".clas. | US-PGPUB; USPAT | AND | OFF | 2006/07/27 10:08 |

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| S50 | 63 | S48 or S49 | US-PGPUB; USPAT; USOCR; EPO; JPO | AND | OFF | 2006/07/27 10:09 |
| S49 | 23 | S43 and dispersant | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 10:09 |
| S52 | 63 | (nanomaterial\$1 or nanotube\$1 or nanofiber\$1 or nanoparticle\$1) and @ad<"20020530" and lubric\$8 and thermal and (fluid or liquid or oil or grease or medium) and dispersant | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 10:11 |
| S51 | 0 | (nanomaterial\$1 or nanotube\$1 or nanofiber\$1 or nanoparticle\$1) and @ad<"20020530" and lubric\$8 and thermal and (fluid or liquid or oil or grease or medium) and dispersant | EPO; JPO | AND | ON | 2006/07/27 10:11 |
| S53 | 15 | ("5853877").URPN. | USPAT | AND | OFF | 2006/07/27 10:12 |
| S54 | 12 | S53 and @ad<"20020530" | USPAT | AND | OFF | 2006/07/27 10:41 |
| S56 | 1123 | S55 and lubric\$8 | USPAT | AND | OFF | 2006/07/27 10:42 |
| S55 | 1235 | "pour point depressant" and @ad<"20020530" | USPAT | AND | OFF | 2006/07/27 10:42 |
| S57 | 508 | S56 and thermal | USPAT | AND | OFF | 2006/07/27 10:43 |
| S58 | 1199 | "pour point depressant" and @ad<"20020530" and lubric\$8 and thermal | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 10:44 |
| S60 | 0 | S59 and S39 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 10:47 |
| S59 | 984 | S58 and dispers\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 10:47 |
| S62 | 3 | S61 and 508/113.ccls. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 10:48 |
| S61 | 678 | S59 and "508".clas. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 10:48 |
| S63 | 4 | ("4735733").URPN. | USPAT | AND | OFF | 2006/07/27 10:52 |
| S64 | 2 | withers.in. and triton | USPAT | AND | OFF | 2006/07/27 11:02 |
| S66 | 3 | "1052307".pn. | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/27 11:20 |

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|-----|-------|---|---|-----|----|------------------|
| S67 | 1 | "10065671".pn. | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/27 11:22 |
| S35 | 9 | 252/70.ccls. AND (nanotube or nanofiber or nanomaterial) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/27 11:23 |
| S68 | 4 | "949199".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/07/27 11:24 |
| S69 | 69 | traditional adj (dispersant or dispersing agent) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 16:22 |
| S70 | 26 | S69 and petroleum | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/27 16:23 |
| S73 | 1447 | S72 and dispers\$3 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:15 |
| S72 | 7209 | (heat adj transfer adj fluid) and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/28 08:15 |
| S71 | 10587 | (heat adj transfer adj fluid) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/28 08:15 |
| S75 | 1447 | S73 or S74 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:16 |
| S74 | 47 | S72 and ("dispersing agent") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:16 |
| S76 | 31 | S75 and (nanotube or nanomaterial or nanoparticle or nanofiber) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:23 |
| S77 | 940 | S75 and (carbon or graphite) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:24 |
| S78 | 116 | S75 and nano\$12 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:25 |

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|-----|------|--|--------------------------------------|-----|----|------------------|
| S81 | 137 | S77 and ("thermal conductivity") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:26 |
| S80 | 940 | S77 and ("thermal conductivity" or "heat transfer") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:26 |
| S79 | 1447 | S75 and ("thermal conductivity" or "heat transfer") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:26 |
| S82 | 29 | S81 and lubric\$8 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:50 |
| S83 | 11 | S72 and polyolester | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 08:54 |
| S85 | 109 | succinimide and nanotube | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 09:23 |
| S84 | 118 | S72 and diester | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 09:23 |
| S86 | 39 | succinimide and nanotube and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 09:25 |
| S87 | 3 | succinimide and nanotube and dispersant and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 10:07 |
| S89 | 45 | (seal adj swelling adj agent) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 10:10 |
| S88 | 0 | (seal adj swelling adj agent) and S72 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 10:10 |
| S90 | 30 | (seal adj swelling adj agent) and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 10:31 |

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| S92 | 80 | ("functional fluid") and ("ashless dispersant") and thermal and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 10:33 |
| S91 | 201 | ("functional fluid") and ("ashless dispersant") and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 10:33 |
| S93 | 27 | ("functional fluid") and ("ashless dispersant") and ("heat transfer") and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/28 10:37 |
| S94 | 1 | ("5652201").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/07/28 10:38 |
| S95 | 2 | ("3272746").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/07/31 08:54 |
| S97 | 1 | ("4234435").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/07/31 08:56 |
| S96 | 2 | ("3821302").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/07/31 08:56 |
| S98 | 1 | "4632769".pn. | USPAT | AND | OFF | 2006/07/31 09:19 |
| S99 | 1 | "4632769".pn. | USPAT | AND | OFF | 2006/07/31 09:31 |
| S100 | 22 | "4519929" | USPAT | AND | OFF | 2006/07/31 09:32 |
| S101 | 1 | ("4160739").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/07/31 09:33 |
| S103 | 94 | pre-shear | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 10:51 |
| S102 | 1 | ("4149984").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/07/31 10:51 |
| S104 | 33 | S103 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 10:52 |
| S106 | 79 | pre-shearing | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 10:53 |
| S105 | 9 | S104 and carbon | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 10:53 |

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| S10 7 | 49 | pre-shearing and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 10:54 |
| S10 9 | 0 | (nanotube\$1 or nanofiber\$1 or nanomaterial\$1 or nanoparticle\$1) AND pre-shear\$3 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:02 |
| S11 1 | 1095 | (nanotube\$1 or nanofiber\$1 or nanomaterial\$1 or nanoparticle\$1) AND ultrasonic\$4 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:04 |
| S11 0 | 4 | (nanotube\$1 or nanofiber\$1 or nanomaterial\$1 or nanoparticle\$1) AND pre-shear\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:04 |
| S11 5 | 419 | S111 and shear\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:12 |
| S11 4 | 0 | S111 and preshear\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:12 |
| S11 3 | 0 | S111 and preshead\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:12 |
| S11 2 | 220 | (nanotube\$1 or nanofiber\$1 or nanomaterial\$1 or nanoparticle\$1) AND ultrasonic\$4 and @ad<"20020530" and milling | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:12 |
| S11 7 | 309 | S115 and viscosity | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:14 |
| S11 6 | 215 | S115 and dispers\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:14 |
| S11 9 | 0 | S117 and (stable adj viscosity) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:17 |
| S11 8 | 140 | S116 and S117 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:17 |
| S12 1 | 384 | (stable adj viscosity) and shear\$3 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:22 |
| S12 0 | 268 | S117 and stable | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:22 |
| S12 2 | 19 | S121 and nano\$10 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:26 |

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| S12 3 | 305 | S121 and dispers\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 11:59 |
| S12 4 | 221 | pre-shear\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:02 |
| S10 8 | 19 | pre-shearing and @ad<"20020530" and carbon | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:02 |
| S12 5 | 119 | S124 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:03 |
| S12 6 | 79 | S125 and viscosity | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:07 |
| S12 7 | 889 | (stable adj viscosity) and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 12:09 |
| S12 8 | 28 | S127 and ultrasonic\$4 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 12:11 |
| S12 9 | 5 | S127 and (fuel adj injector) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 12:12 |
| S13 2 | 554 | S130 and S131 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:21 |
| S13 0 | 206536 | (gel or paste) and (dispersion or suspension) and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:21 |
| S13 3 | 0 | S132 and (functional adj fluid) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:22 |
| S13 4 | 92 | S132 and lubric\$8 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:25 |
| S13 5 | 43 | S134 and oil\$1 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:26 |
| S13 8 | 323 | nonylphenoxy(ethyleneoxy)ethanol and @ad<"20020530" and dispers\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:27 |
| S13 7 | 570 | nonylphenoxy(ethyleneoxy)ethanol and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:27 |

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| S13 6 | 700 | nonylphenoxy(ethyleneoxy)ethanol | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 12:27 |
| S13 9 | 72 | S138 and lubric\$8 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 13:24 |
| S14 1 | 9 | S140 and ("508".clas. or "252".clas.) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:25 |
| S14 3 | 1 | S140 and @ad<"20020530" and S131 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:27 |
| S14 2 | 132 | S140 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:27 |
| S14 4 | 159 | nonylphenoxy(ethyleneoxy)ethanol and (dispersant or "dispersing agent" or "dispersal agent") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:28 |
| S14 0 | 159 | S136 and (dispersant or "dispersing agent" or "dispersal agent") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:28 |
| S14 5 | 1 | nonylphenoxy(ethyleneoxy)ethanol near (dispersant or "dispersing agent" or "dispersal agent") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:30 |
| S14 7 | 230 | antarox and (dispersant or "dispersing agent" or "dispersal agent") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:31 |
| S14 6 | 11 | nonylphenoxy(ethyleneoxy)ethanol with (dispersant or "dispersing agent" or "dispersal agent") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:31 |
| S14 8 | 150 | antarox and (dispersant or "dispersing agent" or "dispersal agent") and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:32 |
| S15 0 | 0 | S148 and S131 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:35 |

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| S14 9 | 35 | S148 and lubric\$8 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:35 |
| S15 1 | 6 | S148 and (heat adj transfer) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:37 |
| S15 3 | 123 | S148 and carbon | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:38 |
| S15 2 | 0 | S148 and (functional adj fluid) | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:38 |
| S15 6 | 4 | S154 and S131 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:39 |
| S15 4 | 240 | (S144 or S148) and oil | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:39 |
| S15 7 | 0 | (S144 or S148) and refrigerant | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:43 |
| S15 9 | 578 | nonoxynol-9 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:49 |
| S15 8 | 794 | nonoxynol-9 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:49 |
| S16 1 | 57 | S159 and (dispersant or "dispersing agent") | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:51 |
| S16 0 | 293 | S159 and dispers\$3 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:51 |
| S16 2 | 1957 | igepal and fluid | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:56 |

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| S15 5 | 124 | S154 and fluid | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:56 |
| S16 4 | 1 | igepal and S131 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 13:57 |
| S16 6 | 170 | S165 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:04 |
| S16 5 | 292 | "igepal co-880" or "igepal co-887" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:04 |
| S16 3 | 17 | igepal and S131 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:04 |
| S16 9 | 1 | S131 and S137 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:05 |
| S16 8 | 0 | S167 and S131 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:05 |
| S16 7 | 118 | S166 and dispers\$3 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:05 |
| S17 0 | 1 | S137 and nanoparticle | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:10 |
| S17 2 | 25 | S131 and "emulsifying agent" and surfactant and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:11 |
| S17 1 | 2 | S131 and "aqueous dispersant" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/07/31 14:11 |
| S17 3 | 0 | ("6878361").URPN. | USPAT | AND | ON | 2006/07/31 14:12 |

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| S17 4 | 20 | ("20020068170" "20020081380" "20020092613" "20020102193" "20020102194" "20020113335" "20020127171" "20020159944" "20020172767" "20030004058" "20030031620" "20030133865" "20030170167" "5560898" "5853877" "5904852" "6331262" "6350488" "6368569" "6723299"). PN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:13 |
| S17 5 | 155 | nikolaev.in. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:23 |
| S17 7 | 8 | ("5641424" "5863463" "6043199" "6059996" "6103144").PN. OR ("6432320").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:42 |
| S17 6 | 2 | ("6432320").PN. OR ("6695974"). URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:42 |
| S18 2 | 23 | S181 and dispersant | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:44 |
| S18 1 | 122 | S180 and (fluid or liquid or oil or grease) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:44 |
| S18 0 | 135 | S179 and thermal | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:44 |
| S17 9 | 226 | S178 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:44 |
| S17 8 | 890 | S131 and lubric\$8 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 14:44 |
| S18 3 | 481 | moy.in. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 15:41 |
| S18 5 | 571 | S184 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:00 |
| S18 6 | 329 | S185 and dispers\$3 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:01 |
| S18 7 | 66 | S186 and (heat adj transfer) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:02 |

EAST Search History

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|----------|------|--|------------------------------|-----|-----|------------------|
| S18 8 | 166 | S186 and fluid | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:12 |
| S18 9 | 124 | S188 and conductivity | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:25 |
| S19 1 | 104 | ("aspect ratio" or "length to diameter ratio") near S131 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:26 |
| S19 0 | 273 | S185 and (dispers\$3 or suspen\$4) and "500" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:26 |
| S18 4 | 1939 | ("aspect ratio" or "length to diameter ratio") and S131 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:26 |
| S19 2 | 32 | S191 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:32 |
| S19 3 | 1 | S192 and (heat adj transfer)\ | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:33 |
| S19 4 | 1 | S192 and (heat adj transfer) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:35 |
| S19 6 | 1650 | ratio and S131 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:37 |
| S19 5 | 14 | nanofluids and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:37 |
| S19 8 | 736 | S197 and conductivity | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:38 |
| S19 7 | 1115 | S196 and thermal | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:38 |
| S20 0 | 55 | S198 and lubric\$8 and ("500" or "5000") | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:41 |
| S19 9 | 83 | S198 and lubric\$8 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/07/31 16:41 |
| S20 1 | 1 | ("6419717").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/08/01 09:03 |

EAST Search History

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|----------|------|--|--------------------------------------|-----|----|------------------|
| S20 4 | 1308 | (gel or paste) and dispersion and S203 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:16 |
| S20 3 | 8922 | (nanomaterial\$1 or nanotube\$1 or nanofiber\$1) | US-PGPUB; USPAT | AND | ON | 2006/08/01 09:16 |
| S20 2 | 13 | ultrasonic and (preshear\$3 or pre-shear\$3) and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:16 |
| S20 5 | 362 | S204 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:17 |
| S20 8 | 237 | S207 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:18 |
| S20 7 | 329 | S206 and dispersion | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:18 |
| S20 9 | 898 | (gel or paste) and (heat adj transfer adj medium) and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:24 |
| S20 6 | 1319 | (gel or paste) and (heat adj transfer adj fluid) and @ad<"20050530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:24 |
| S21 0 | 212 | S209 and dispersion | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:25 |
| S21 1 | 48 | S209 and dispersion and lubric\$8 | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:28 |
| S21 5 | 60 | S214 and dispersion | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:29 |
| S21 4 | 95 | paste and "functional fluid" and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:29 |

EAST Search History

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|----------|-------|---|--------------------------------------|-----|----|------------------|
| S21 3 | 210 | S212 and dispersion | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:29 |
| S21 2 | 478 | (gel or paste) and "functional fluid" and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 09:29 |
| S13 1 | 8908 | (nanomaterial\$1 or nanotube\$1 or nanofiber\$1) | US-PGPUB; USPAT | AND | ON | 2006/08/01 13:36 |
| S21 8 | 8922 | (nanomaterial\$1 or nanotube\$1 or nanofiber\$1) | US-PGPUB; USPAT | AND | ON | 2006/08/01 14:15 |
| S21 7 | 13987 | lubricant and shear and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 14:15 |
| S22 1 | 354 | (stable adj viscosity) and shear and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 14:20 |
| S22 0 | 0 | (stable adj viscosity) and shear and S218 and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 14:20 |
| S22 2 | 199 | (stable adj viscosity) and shear and dispersion and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 14:51 |
| S22 3 | 44 | (stable adj viscosity) and nozzle and dispersion and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 14:54 |
| S22 4 | 3 | (stable adj viscosity) and (turbulent adj flow) and dispersion and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 14:55 |
| S22 7 | 49 | lubricant and shear and S218 and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 15:01 |
| S22 6 | 17 | (stable adj viscosity) and ultrasonic\$4 and dispersion and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 15:01 |
| S22 5 | 17 | (stable adj viscosity) and ultrasonic\$4 and dispersion and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 15:01 |
| S21 9 | 49 | lubricant and shear and S218 and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 15:01 |
| S22 9 | 2 | (pre-shear\$3 or preshear\$3) and @ad<"20020530" | USOCR; EPO | AND | ON | 2006/08/01 15:03 |
| S22 8 | 173 | (pre-shear\$3 or preshear\$3) and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 15:03 |
| S23 3 | 112 | shear and lubricant and dispersion and viscosity and injector and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 15:04 |

EAST Search History

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|----------|------|---|--------------------------------------|-----|----|------------------|
| S23 2 | 4490 | shear and lubricant and dispersion and viscosity @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 15:04 |
| S23 1 | 0 | shear and lubricant and dispersion and @ad<"20020530" | USOCR; EPO | AND | ON | 2006/08/01 15:04 |
| S23 0 | 5850 | shear and lubricant and dispersion and @ad<"20020530" | US-PGPUB; USPAT; USOCR; EPO | AND | ON | 2006/08/01 15:04 |
| S21 6 | 171 | (pre-shear\$3 or preshear\$3) and @ad<"20020530" | US-PGPUB; USPAT | AND | ON | 2006/08/01 15:15 |
| S23 4 | 71 | S216 and stable | US-PGPUB; USPAT | AND | ON | 2006/08/01 15:16 |
| S23 6 | 1982 | S235 and lubricant | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:23 |
| S23 5 | 8788 | shear and homogeneous and dispersion and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:23 |
| S23 7 | 32 | S236 and (functional adj fluid) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:26 |
| S23 8 | 281 | shear near uniform and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:27 |
| S23 9 | 98 | shear near uniform and dispersion and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:36 |
| S24 0 | 1601 | shear near viscosity and dispersion and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:37 |
| S24 3 | 1127 | dispersion and sonicated and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:41 |
| S24 2 | 3749 | dispersion and sonicated and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:41 |
| S24 1 | 40 | shear near viscosity and dispersion and injector and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:41 |
| S24 4 | 24 | dispersion and sonicated and viscosity and S218 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:53 |
| S24 5 | 10 | dispersion and ultrasonicated and viscosity and S218 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:56 |

EAST Search History

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|----------|------|---|------------------------------|-----|----|------------------|
| S24 6 | 72 | ("nanotube suspension" or "nanotube dispersion") and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 15:57 |
| S24 7 | 41 | ("nanotube suspension" or "nanotube dispersion") and @ad<"20020530" and \$sonicated | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:02 |
| S25 0 | 839 | shearing and @ad<"20020530" and "aspect ratio" and (dispersion or suspension) | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:04 |
| S24 9 | 1429 | shearing and @ad<"20020530" and "aspect ratio" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:04 |
| S24 8 | 35 | ("nanotube suspension" or "nanotube dispersion") and @ad<"20020530" and injected | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:04 |
| S25 1 | 571 | S250 and viscosity | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:05 |
| S25 2 | 7 | S251 and S218 | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:10 |
| S25 5 | 2 | pre-shearing and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:11 |
| S25 4 | 0 | preshearing and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:11 |
| S25 3 | 1385 | shearing and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:11 |
| S25 6 | 2 | pre-shear and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:13 |
| S25 7 | 6 | preshear and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:14 |
| S26 0 | 366 | sheared and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:15 |
| S25 9 | 0 | pre-sheared and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:15 |
| S25 8 | 1 | presheared and agglomerates and viscosity and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2006/08/01 16:15 |

EAST Search History

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|----------|-------|--|------------------------------|-----|-----|------------------|
| S26 1 | 1 | "6695974".pn. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/14 12:28 |
| S26 2 | 1 | "20040209782".pn. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/16 18:35 |
| S26 3 | 5 | (styrene adj maleic adj anhydride) with hlb | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/16 18:42 |
| S26 4 | 0 | alkylsuccinimide with HLB | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/16 18:43 |
| S26 7 | 364 | (dispersant or (dispersing adj agent)) with HLB | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 11:03 |
| S2 | 6 | ((("6169059") or ("5523006") or ("5560898") or ("5853877") or ("6099965") or ("5165909"))).PN. | USPAT; USOCR | OR | OFF | 2007/05/17 11:03 |
| S26 8 | 1 | S266 and "508".clas. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 11:04 |
| S26 6 | 76 | (dispersant or (dispersing adj agent)) near HLB | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 11:59 |
| S27 1 | 278 | S270 and "508".clas. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:03 |
| S27 0 | 15345 | S269 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:03 |
| S27 4 | 0 | S270 and nanomaterial | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:04 |
| S27 3 | 0 | S271 and nanomaterial | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:04 |
| S27 2 | 0 | S271 and nanotube | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:04 |
| S27 6 | 330 | S270 and "252".clas. not S271 | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:05 |
| S27 5 | 8 | S270 and nanotube | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:05 |

EAST Search History

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|----------|-------|---|------------------------------|-----|----|------------------|
| S27 7 | 25 | (S271 or S276) and (heat adj transfer) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:06 |
| S26 9 | 27238 | (sorbitan adj trioleate) or (sorbitan adj tristearate) or (polyoxyethylene adj sorbitol adj beeswax) or (polyoxyethylene adj sorbitol adj hexastearate) or (ethylene adj glycol adj fatty adj acid adj ester) or (propylene adj glycol adj fatty adj acid adj ester) or (propylene adj glycol adj monostearate) or (ethylene adj glycol adj monostearate) or (glycerol adj monostearate) or (sorbitan adh monooleate) or (propylene adj glycol adj monolaurate) or (sorbitan adj monopalmitate) or (polyoxyethylene adj dioleate) or (polyoxypropylene adj mannitol adj dioleate) or (diethylene adj glycol adj fatty adj acid adj ester) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:30 |
| S28 0 | 0 | S279 and "508".clas. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:31 |
| S27 8 | 539 | ((sorbitan adj trioleate) or (sorbitan adj tristearate) or (polyoxyethylene adj sorbitol adj beeswax) or (polyoxyethylene adj sorbitol adj hexastearate) or (ethylene adj glycol adj fatty adj acid adj ester) or (propylene adj glycol adj fatty adj acid adj ester) or (propylene adj glycol adj monostearate) or (ethylene adj glycol adj monostearate) or (glycerol adj monostearate) or (sorbitan adh monooleate) or (propylene adj glycol adj monolaurate) or (sorbitan adj monopalmitate) or (polyoxyethylene adj dioleate) or (polyoxypropylene adj mannitol adj dioleate) or (diethylene adj glycol adj fatty adj acid adj ester)) with (dispersant or (dispersing adj agent)) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:31 |
| S28 1 | 136 | S279 and lubric\$8 | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:32 |
| S27 9 | 291 | S278 and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:32 |
| S26 5 | 2 | succinimide with HLB | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:32 |

EAST Search History

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|----------|----|---|------------------------------|-----|----|------------------|
| S28 2 | 4 | mannich with HLB | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 12:48 |
| S28 3 | 75 | surfactant with HLB and "508".clas. and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 13:50 |
| L1 | 41 | 508/113.ccls. and @ad<"20020530" | US-PGPUB; USPAT; USOCR | AND | ON | 2007/05/17 18:18 |